

Table K2. - Soil Features

Washoe County, Nevada, South Part

Absence of an entry indicates that the feature is not a concern or that data were not estimated.

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
101: Aquinas	Duripan	30-40	4-17	---	0	---	Moderate	Moderate	Moderate
102: Aquinas	Duripan	30-40	4-17	---	0	---	Moderate	Moderate	Moderate
106: Aquinas, eroded	Duripan	29-40	4-17	---	0	---	Moderate	Moderate	Moderate
110: Jowec Variant	---	---	---	---	0	---	Moderate	High	Moderate
111: Jowec Variant	---	---	---	---	0	---	Moderate	High	Moderate
Greenbrae	---	---	---	---	0	---	Moderate	Moderate	Moderate
120: Doten	---	---	---	---	0	---	Low	High	High
Playas	---	---	---	---	0	---	None	High	Low
121:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
121: Doten	---	---	---	---	0	---	Low	High	High
130: Greenbrae, clayey substratum	---	---	---	---	0	---	Moderate	High	Low
131: Greenbrae	---	---	---	---	0	---	Moderate	Moderate	Moderate
132: Greenbrae	---	---	---	---	0	---	Moderate	Moderate	Moderate
134: Greenbrae, clayey substratum	---	---	---	---	0	---	Moderate	High	Low
136: Greenbrae	---	---	---	---	0	---	Moderate	Moderate	Moderate
140: Haybourne	---	---	---	---	0	---	Moderate	High	Low
141: Haybourne	---	---	---	---	0	---	Moderate	High	Low
142:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
142: Haybourne	---	---	---	---	0	---	Moderate	High	Low
150: Doten Variant, slightly saline	---	---	---	---	0	---	Low	High	High
151: Doten Variant, strongly saline	---	---	---	---	0	---	Low	High	High
160: Incy	---	---	---	---	0	---	Low	Moderate	Low
161: Incy, hilly	---	---	---	---	0	---	Low	Moderate	Low
Playas	---	---	---	---	0	---	None	High	Low
171: Indian Creek	Duripan	14-20	4-17	---	0	---	Low	High	Low
172: Indian Creek	Duripan	14-20	4-17	---	0	---	Low	High	Low
173: Indian Creek	Duripan	14-20	4-17	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
174: Indian Creek	Duripan	14-20	4-17	---	0	---	Low	High	Low
175: Indian Creek	Duripan	14-20	4-17	---	0	---	Low	High	Low
176: Indian Creek	Duripan	14-20	4-17	---	0	---	Low	High	Low
Reno	Duripan	20-40	4-17	---	0	---	Moderate	High	Low
	Bedrock (paralithic)	40-60	---	---					
Washoe	---	---	---	---	0	---	Moderate	Moderate	Low
190: Manogue	Bedrock (paralithic)	61-65	---	---	0	---	Low	High	Low
191: Manogue	Bedrock (paralithic)	61-65	---	---	0	---	Low	High	Low
192: Manogue	Bedrock (paralithic)	61-65	---	---	0	---	Low	High	Low
200:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
200:									
Northmore	---	---	---	---	0	---	Low	Moderate	Moderate
Other Soils	---	---	---	---	---	---	---	---	---
201:									
Northmore	---	---	---	---	0	---	Low	Moderate	Moderate
Other Soils	---	---	---	---	---	---	---	---	---
202:									
Northmore	---	---	---	---	0	---	Low	Moderate	Moderate
Other Soils	---	---	---	---	---	---	---	---	---
203:									
Northmore	---	---	---	---	0	---	Low	Moderate	Moderate
210:									
Luppino	Bedrock (paralithic)	12-18	---	---	0	---	Moderate	Moderate	Moderate
211:									
Luppino	Bedrock (paralithic)	12-18	---	---	0	---	Moderate	Moderate	Moderate
221:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
221: Oppio	Bedrock (lithic)	20-40	---	---	0	---	Low	Moderate	Moderate
222: Oppio	Bedrock (lithic)	20-40	---	---	0	---	Low	Moderate	Moderate
223: Oppio	Bedrock (lithic)	20-40	---	---	0	---	Low	Moderate	Moderate
Rezave	Bedrock (lithic)	14-20	---	---	0	---	Low	High	High
Rock Outcrop	---	---	---	---	---	---	---	---	---
230: Cradlebaugh	---	---	---	---	0	---	High	High	High
240: Updike	---	---	---	---	0	---	Low	High	Low
Cradlebaugh	---	---	---	---	---	---	---	---	---
241: Updike, gravelly substratum	---	---	---	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
241: Cradlebaugh	---	---	---	---	---	---	---	---	---
250: Cassiro	Bedrock (paralithic)	40-65	---	---	0	---	Low	Moderate	Moderate
Other Soils	---	---	---	---	---	---	---	---	---
251: Cassiro	Bedrock (paralithic)	40-65	---	---	0	---	Low	Moderate	Moderate
Other Soils	---	---	---	---	---	---	---	---	---
252: Cassiro	Bedrock (paralithic)	40-65	---	---	0	---	Low	Moderate	Moderate
Other Soils	---	---	---	---	---	---	---	---	---
260: Acrelane	Bedrock (paralithic)	10-20	---	---	0	---	Moderate	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
262:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
262: Acrelane	Bedrock (paralithic)	10-20	---	---	0	---	Moderate	Moderate	Moderate
280: Wedekind	Bedrock (paralithic)	10-20	---	---	0	---	Moderate	Moderate	Low
281: Wedekind	Bedrock (paralithic)	10-20	---	---	0	---	Moderate	Moderate	Low
282: Wedekind	Bedrock (paralithic)	10-20	---	---	0	---	Moderate	Moderate	Low
290: Verdico Variant	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
291: Verdico Variant	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
300: Surgem	Bedrock (lithic)	20-30	---	---	0	---	Low	High	Low
301: Surgem	Bedrock (lithic)	20-30	---	---	0	---	Low	High	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
302: Surgem	Bedrock (lithic)	20-30	---	---	0	---	Low	High	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
310: Risley	Bedrock (paralithic)	20-30	---	---	0	---	Low	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
311: Risley	Bedrock (paralithic)	20-30	---	---	0	---	Low	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
312: Risley	Bedrock (paralithic)	20-30	---	---	0	---	Low	Moderate	Moderate
313: Risley	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Moderate
314: Risley	Bedrock (paralithic)	20-30	---	---	0	---	Low	Moderate	Moderate

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
314: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
341: Yuko	Bedrock (paralithic)	6-14	---	---	0	---	Moderate	High	Low
342: Yuko	Bedrock (paralithic)	6-14	---	---	0	---	Moderate	High	Low
Reywat	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
350: Mizel	Bedrock (lithic)	3-10	---	---	0	---	Moderate	Moderate	Moderate
351: Mizel	Bedrock (lithic)	3-10	---	---	0	---	Moderate	Moderate	Moderate
Skedaddle	Bedrock (lithic)	4-12	---	---	0	---	Moderate	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
360: Pits	---	---	---	---	0	---	None	---	---
370: Lemm	---	---	---	---	0	---	Moderate	Moderate	Moderate
390: Duckhill	Bedrock (paralithic)	6-10	---	---	0	---	Moderate	Moderate	Moderate
391: Duckhill	Bedrock (paralithic)	6-10	---	---	0	---	Moderate	Moderate	Moderate
Hirschdale	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
Fraval	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Moderate
400: Jubilee Variant, strongly saline	---	---	---	---	0	---	High	High	High
Voltaire	---	---	---	---	---	---	---	---	---
401: Jubilee Variant, slightly saline	---	---	---	---	0	---	High	High	High

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
401: Voltaire	---	---	---	---	---	---	---	---	---
403: Jubilee Variant	---	---	---	---	0	---	High	High	High
Voltaire	---	---	---	---	---	---	---	---	---
410: Ophir	---	---	---	---	0	---	Moderate	Moderate	Low
Jubilee	---	---	---	---	---	---	---	---	---
411: Ophir	---	---	---	---	0	---	Moderate	Moderate	Low
Jubilee	---	---	---	---	---	---	---	---	---
420: Godecke	---	---	---	---	0	---	Moderate	High	High
Voltaire	---	---	---	---	---	---	---	---	---
Sagouspe Variant, Wet, wet	---	---	---	---	0	---	High	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
423: Godecke Variant	Duripan	40-60	0-3	---	0	---	Moderate	High	Low
430: Sagouspe Variant	---	---	---	---	0	---	High	Moderate	Low
Oxyaquic Torrifluvents	---	---	---	---	0	---	High	Moderate	Low
Sagouspe Variant, Wet, wet	---	---	---	---	0	---	High	Moderate	Low
431: Sagouspe Variant, Wet, wet	---	---	---	---	0	---	High	Moderate	Low
Oxyaquic Torrifluvents	---	---	---	---	0	---	High	Moderate	Low
440: Jubilee	---	---	---	---	0	---	High	Moderate	Low
Other Soils	---	---	---	---	---	---	---	---	---
441: Jubilee	---	---	---	---	0	---	High	Moderate	Low
Other Soils	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
442: Jubilee	---	---	---	---	0	---	High	Moderate	Low
Voltaire	---	---	---	---	---	---	---	---	---
443: Jubilee	---	---	---	---	0	---	High	Moderate	Low
Other Soils	---	---	---	---	---	---	---	---	---
445: Jubilee, drained	---	---	---	---	0	---	Moderate	Moderate	Low
Voltaire	---	---	---	---	---	---	---	---	---
450: Voltaire, slightly saline	---	---	---	---	0	---	High	High	Low
451: Voltaire, slightly saline	---	---	---	---	0	---	High	High	Moderate
452: Voltaire, strongly saline	---	---	---	---	0	---	High	High	Moderate
454:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
454: Voltaire, drained	---	---	---	---	0	---	Moderate	High	Low
455: Voltaire, drained	---	---	---	---	0	---	Moderate	High	Low
Truckee	---	---	---	---	0	---	High	High	Low
456: Voltaire, gravelly substratum	---	---	---	---	0	---	High	High	Low
460: Surprise	---	---	---	---	0	---	Moderate	Moderate	Low
461: Surprise	---	---	---	---	0	---	Moderate	Moderate	Low
463: Surprise	---	---	---	---	0	---	Moderate	Moderate	Low
470: Dalzell	Duripan	20-40	4-17	---	0	---	Moderate	High	High
Playas	---	---	---	---	0	---	None	High	Low

480:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
480: Holbrook	---	---	---	---	0	---	Moderate	High	Low
482: Holbrook	---	---	---	---	0	---	Moderate	High	Low
490: Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
491: Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
492: Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
493: Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Glenbrook	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
494: Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low

495:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
495:									
Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Glenbrook	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
496:									
Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Glenbrook	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Haypress	Bedrock (paralithic)	40-60	---	---	0	---	Low	Low	Low
497:									
Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Glenbrook	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
500:									
Mottsville	---	---	---	---	0	---	Low	Moderate	Moderate
504:									
Mottsville	---	---	---	---	0	---	Low	Moderate	Moderate

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
505: Mottsville	---	---	---	---	0	---	Low	Moderate	Moderate
510: Settlemeier	---	---	---	---	0	---	High	High	Low
Voltaire	---	---	---	---	---	---	---	---	---
513: Settlemeier	---	---	---	---	0	---	High	High	Low
Notus	---	---	---	---	0	---	Low	Moderate	Low
Voltaire	---	---	---	---	---	---	---	---	---
514: Settlemeier	---	---	---	---	0	---	High	High	Low
Voltaire	---	---	---	---	---	---	---	---	---
520: Dressler	---	---	---	---	0	---	High	Moderate	Low
Settlemeier	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
520: Other Soils	---	---	---	---	---	---	---	---	---
530: Sagouspe	---	---	---	---	0	---	Moderate	High	Low
Cradlebaugh	---	---	---	---	---	---	---	---	---
531: Sagouspe	---	---	---	---	0	---	Moderate	High	Low
Cradlebaugh	---	---	---	---	---	---	---	---	---
532: Sagouspe	---	---	---	---	0	---	Moderate	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
Riverwash	---	---	---	---	---	---	---	---	---
550: Leviathan	---	---	---	---	0	---	Moderate	Moderate	Low
551:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
551: Leviathan	---	---	---	---	0	---	Moderate	Moderate	Low
553: Leviathan	---	---	---	---	0	---	Moderate	Moderate	Low
554: Leviathan	---	---	---	---	0	---	Moderate	Moderate	Low
557: Leviathan	---	---	---	---	0	---	Moderate	Moderate	Low
559: Leviathan	---	---	---	---	0	---	Moderate	Moderate	Low
570: Turria	---	---	---	---	0	---	Moderate	Moderate	Low
585: Barnard	Duripan	20-40	4-17	---	0	---	Moderate	High	Low
Trosi	Duripan	12-20	4-17	---	0	---	Low	High	Moderate
Other Soils	---	---	---	---	---	---	---	---	---

590:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
590: Springmeyer	---	---	---	---	0	---	Moderate	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
591: Springmeyer	---	---	---	---	0	---	Moderate	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
595: Springmeyer	---	---	---	---	0	---	Moderate	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
600: Idlewild, drained	---	---	---	---	0	---	High	Moderate	Low
601: Idlewild, drained	---	---	---	---	0	---	High	Moderate	Low
602: Idlewild	---	---	---	---	0	---	High	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
602: Settlemeier	---	---	---	---	---	---	---	---	---
612: Verdico	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
613: Verdico	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
614: Verdico	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
615: Verdico	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
620: Orr	---	---	---	---	0	---	Moderate	Moderate	Low
Other Soils	---	---	---	---	---	---	---	---	---
621: Orr	---	---	---	---	0	---	Moderate	Moderate	Low
Other Soils	---	---	---	---	---	---	---	---	---

622:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
622: Orr, gravelly substratum	---	---	---	---	0	---	Moderate	Moderate	Low
Other Soils	---	---	---	---	---	---	---	---	---
623: Orr	---	---	---	---	0	---	Moderate	Moderate	Low
624: Orr	---	---	---	---	0	---	Moderate	Moderate	Low
630: Fleischmann	Duripan	20-30	4-17	---	0	---	Moderate	High	Low
631: Fleischmann	Duripan	20-30	4-17	---	0	---	Moderate	High	Low
632: Fleischmann	Duripan	20-30	4-17	---	0	---	Moderate	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
640: Notus	---	---	---	---	0	---	Low	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
640: Settlemeier	---	---	---	---	---	---	---	---	---
650: Chalco	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
651: Chalco	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
652: Chalco	Bedrock (paralithic)	10-20	---	---	0	---	Low	High	Low
653: Chalco	Bedrock (paralithic)	10-20	---	---	0	---	Low	High	Low
654: Chalco	Bedrock (paralithic)	10-20	---	---	0	---	Low	High	Low
Celeton Variant	Bedrock (paralithic)	5-15	---	---	0	---	Moderate	High	Low
660: Oest	---	---	---	---	0	---	Moderate	Moderate	Low
661: Oest	---	---	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
662: Oest	---	---	---	---	0	---	Moderate	Moderate	Low
663: Oest	---	---	---	---	0	---	Moderate	Moderate	Low
Settlemeier	---	---	---	---	---	---	---	---	---
664: Oest	---	---	---	---	0	---	Moderate	Moderate	Low
668: Oest	---	---	---	---	0	---	Moderate	Moderate	Low
669: Oest	---	---	---	---	0	---	Moderate	Moderate	Low
670: Galeppi	---	---	---	---	0	---	Moderate	Moderate	Low
671: Galeppi	---	---	---	---	0	---	Moderate	Moderate	Low
673: Galeppi	---	---	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
674: Galeppi	---	---	---	---	0	---	Moderate	Moderate	Low
676: Galeppi	---	---	---	---	0	---	Moderate	Moderate	Low
Barnard	Duripan	20-40	4-17	---	0	---	Moderate	High	Low
681: Reno	Duripan	20-40	4-17	---	0	---	Moderate	High	Low
	Bedrock (paralithic)	40-60	---	---					
683: Reno	Duripan	20-40	4-17	---	0	---	Moderate	High	Low
	Bedrock (paralithic)	40-60	---	---					
730: Stodick	Bedrock (paralithic)	14-20	---	---	0	---	Moderate	Moderate	Low
731: Stodick	Bedrock (paralithic)	14-20	---	---	0	---	Moderate	Moderate	Low
740:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
740: Blackwell	---	---	---	---	0	---	High	Moderate	Moderate
Marla	---	---	---	---	0	---	Moderate	High	High
Terric Cryosapristis	---	---	---	---	4-6	12-18	Moderate	Moderate	Low
752: Toiyabe	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Moderate
Corbett	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
Wet Areas	---	---	---	---	---	---	---	---	---
753: Toiyabe	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Moderate
Corbett	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
753: Wet Areas	---	---	---	---	---	---	---	---	---
754: Toiyabe	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
Wet Areas	---	---	---	---	---	---	---	---	---
756: Toiyabe	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Moderate
Corbett	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Moderate
Haypress	Bedrock (paralithic)	40-60	---	---	0	---	Low	Low	Low
Wet Areas	---	---	---	---	---	---	---	---	---
772: Booford	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Low
775: Booford	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
780: Bieber	Duripan	8-20	4-17	---	0	---	Low	High	Low
782: Bieber	Duripan	8-20	4-17	---	0	---	Low	High	Low
800: Truckee	---	---	---	---	0	---	High	High	Low
Voltaire	---	---	---	---	---	---	---	---	---
802: Truckee, strongly saline	---	---	---	---	0	---	High	High	High
Voltaire	---	---	---	---	---	---	---	---	---
805: Truckee, gravelly substratum	---	---	---	---	0	---	High	High	High
806: Truckee, sandy substratum, strongly saline	---	---	---	---	0	---	High	High	High
Other Soils	---	---	---	---	---	---	---	---	---

810:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
810: Rose Creek, drained	---	---	---	---	0	---	High	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
812: Rose Creek, drained	---	---	---	---	0	---	High	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
813: Rose Creek, drained	---	---	---	---	0	---	High	High	Low
Other Soils	---	---	---	---	---	---	---	---	---
820: Marla	---	---	---	---	0	---	Moderate	High	High
Blackwell	---	---	---	---	0	---	High	Moderate	Moderate
821: Marla	---	---	---	---	0	---	Moderate	High	High
Blackwell	---	---	---	---	0	---	High	Moderate	Moderate

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
830: Fetic	---	---	---	---	0	---	High	High	High
Voltaire	---	---	---	---	---	---	---	---	---
831: Fetic	---	---	---	---	0	---	High	High	High
Voltaire	---	---	---	---	---	---	---	---	---
840: Temo	Bedrock (paralithic)	8-20	---	---	0	---	Low	Low	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
Witefels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Moderate
Wet Areas	---	---	---	---	---	---	---	---	---
850: Washoe	---	---	---	---	0	---	Moderate	Moderate	Low
861: Reywat	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
862: Reywat	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
863: Reywat	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
864: Reywat, cool	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
870: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
871: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
872: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
873:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
873: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
875: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Mizel	Bedrock (lithic)	3-10	---	---	0	---	Moderate	Moderate	Moderate
Zephan	Bedrock (paralithic)	25-40	---	---	0	---	Low	Moderate	Moderate
876: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Oppio	Bedrock (lithic)	20-40	---	---	0	---	Low	Moderate	Low
Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
877: Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
877:									
Frodo	Duripan	14-20	4-17	---	0	---	Low	High	Low
	Bedrock (lithic)	18-30	---	---					
Mizel	Bedrock (lithic)	3-10	---	---	0	---	Moderate	Moderate	Moderate
880:									
Rock Outcrop	---	---	---	---	---	---	---	---	---
Zephan	Bedrock (paralithic)	25-40	---	---	0	---	Low	Moderate	Moderate
Smallcone	Bedrock (paralithic)	4-10	---	---	0	---	Low	Moderate	Moderate
881:									
Zephan	Bedrock (paralithic)	25-40	---	---	0	---	Low	Moderate	Moderate
882:									
Zephan	Bedrock (paralithic)	25-40	---	---	0	---	Low	Moderate	Moderate
890:									
Indiano, warm	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
891:									
Indiano, warm	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
892: Indiano, warm	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Koontz	Bedrock (paralithic)	8-20	---	---	0	---	Moderate	Moderate	Low
Flex	Bedrock (paralithic)	6-12	---	---	0	---	Moderate	Moderate	Low
893: Indiano	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Duco	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Cagle	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
894: Indiano	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Duco	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Skedaddle	Bedrock (lithic)	4-12	---	---	0	---	Moderate	Moderate	Low
895: Indiano	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
895: Zephan	Bedrock (paralithic)	25-40	---	---	0	---	Low	Moderate	Moderate
Duco	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
896: Indiano	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Nosrac	---	---	---	---	0	---	Moderate	High	Low
Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
900: Flex	Bedrock (paralithic)	6-12	---	---	0	---	Moderate	Moderate	Low
901: Flex	Bedrock (paralithic)	6-12	---	---	0	---	Moderate	Moderate	Low
903: Flex	Bedrock (paralithic)	6-12	---	---	0	---	Moderate	Moderate	Low
910: Vamp, slightly saline-alkali	Duripan	20-40	4-17	---	0	---	High	High	High

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
910: Voltaire	---	---	---	---	---	---	---	---	---
911: Vamp, strongly saline-alkali	Duripan	20-40	4-17	---	0	---	High	High	High
Voltaire	---	---	---	---	---	---	---	---	---
930: Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
931: Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
932: Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
933: Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
933: Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
Rubble Land	Bedrock (lithic)	60	---	---	0	---	None	---	---
960: Kayo	---	---	---	---	0	---	Moderate	High	Low
961: Kayo	---	---	---	---	0	---	Moderate	High	Low
962: Kayo	---	---	---	---	0	---	Moderate	High	Low
963: Kayo	---	---	---	---	0	---	Moderate	High	Low
971: Aladshi	---	---	---	---	0	---	Moderate	High	Low
974: Aladshi	---	---	---	---	0	---	Moderate	High	Low
980: Koontz	Bedrock (paralithic)	8-20	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
982: Koontz	Bedrock (paralithic)	8-20	---	---	0	---	Moderate	Moderate	Low
983: Koontz	Bedrock (paralithic)	8-20	---	---	0	---	Moderate	Moderate	Low
Nosrac	---	---	---	---	0	---	Moderate	High	Low
984: Koontz	Bedrock (paralithic)	8-20	---	---	0	---	Moderate	Moderate	Low
Tristan	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Low
Devada	Bedrock (lithic)	12-20	---	---	0	---	Low	Moderate	Low
990: Rock Outcrop	---	---	---	---	---	---	---	---	---
991: Urban Land	---	---	---	---	0	---	None	---	---
Xeric Torriorthents	---	---	---	---	0	---	None	---	---
992:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
992: Playas	---	---	---	---	0	---	None	High	Low
993: Endoaquolls	---	---	---	---	0	---	High	High	High
994: Badland	Bedrock (paralithic)	1-4	---	---	0	---	None	High	High
Chalco	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
Verdico	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
996: Dune Land	---	---	---	---	0	---	None	Low	Low
Playas	---	---	---	---	0	---	None	High	Low
997: Badland	---	---	---	---	0	---	None	High	High
998: Beaches	---	---	---	---	0	---	None	---	---
1010:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1010: Gabica	Bedrock (lithic)	14-20	---	---	0	---	Moderate	High	Low
1011: Gabica	Bedrock (lithic)	14-20	---	---	0	---	Moderate	High	Low
Easte	Bedrock (paralithic)	40-60	---	---	0	---	Low	Moderate	Moderate
Burnborough	---	---	---	---	0	---	Moderate	Moderate	Low
1040: Orr Variant	---	---	---	---	0	---	Moderate	High	Low
1041: Orr Variant, thin surface	---	---	---	---	0	---	Moderate	High	Low
1050: Waspo	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
1051: Waspo	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
1052: Waspo	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1052: Rock Outcrop	---	---	---	---	---	---	---	---	---
1054: Waspo	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
1060: Witefels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
Wet Areas	---	---	---	---	---	---	---	---	---
1062: Witefels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
Wet Areas	---	---	---	---	---	---	---	---	---
1080: Inville Variant	---	---	---	---	0	---	High	Moderate	Moderate
Blackwell	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1090: Railcity	---	---	---	---	0	---	Low	Moderate	Moderate
Blackwell	---	---	---	---	---	---	---	---	---
1091: Railcity	---	---	---	---	0	---	Low	Moderate	Moderate
1100: Graylock	Bedrock (lithic)	40-60	---	---	0	---	Low	High	High
Temo	Bedrock (paralithic)	8-20	---	---	0	---	Low	Low	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
1120: Apmat	---	---	---	---	0	---	Moderate	Moderate	Moderate
1121: Apmat	---	---	---	---	0	---	Moderate	Moderate	Moderate
1130: Dithod	---	---	---	---	0	---	High	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1130: Voltaire	---	---	---	---	---	---	---	---	---
1141: Bedell	---	---	---	---	0	---	Moderate	Low	Moderate
1142: Bedell	---	---	---	---	0	---	Moderate	Low	Moderate
1143: Bedell	---	---	---	---	0	---	Moderate	Low	Moderate
1160: Jowec	---	---	---	---	0	---	Low	High	Low
1161: Jowec	---	---	---	---	0	---	Low	High	Low
1170: Wedertz	---	---	---	---	0	---	Moderate	Moderate	Low
1171: Wedertz	---	---	---	---	0	---	Moderate	Moderate	Low
1172:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1172: Wedertz	---	---	---	---	0	---	Moderate	Moderate	Low
1181: Haypress	Bedrock (paralithic)	40-60	---	---	0	---	Low	Low	Low
Tanob	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
1182: Haypress	Bedrock (paralithic)	40-60	---	---	0	---	Low	Low	Low
Tanob	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Moderate
Rock Outcrop	---	---	---	---	---	---	---	---	---
1183: Haypress	Bedrock (paralithic)	40-60	---	---	0	---	Low	Low	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
1190: Spasprey	Duripan	20-30	4-17	---	0	---	Moderate	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1191: Spasprey	Duripan	20-30	4-17	---	0	---	Moderate	High	Low
1192: Spasprey	Duripan	20-30	4-17	---	0	---	Moderate	High	Low
1193: Spasprey	Duripan	20-30	4-17	---	0	---	Moderate	High	Low
1194: Spasprey	Duripan	20-30	4-17	---	0	---	Moderate	High	Low
1200: Mellor	---	---	---	---	0	---	Moderate	High	High
1210: Linhart	---	---	---	---	0	---	Low	Moderate	Low
1211: Linhart	---	---	---	---	0	---	Low	Moderate	Low
1220: Calpine	---	---	---	---	0	---	Moderate	Moderate	Moderate
1240:									

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1240: Pizene	---	---	---	---	0	---	Low	High	High
1250: Rednik	---	---	---	---	0	---	Low	High	Low
1251: Rednik	---	---	---	---	0	---	Low	High	Low
1261: Thulepah	---	---	---	---	0	---	Moderate	Moderate	Moderate
Hutchley	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
1270: Indiano	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Tristan	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Low
Lemm	---	---	---	---	0	---	Moderate	Moderate	Moderate
1271: Barshaad	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1271:									
Tristan	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Low
Arzo	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
1272:									
Tristan	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Low
Arzo	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
Reywat	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
1273:									
Barshaad	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
Tristan	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Low
Frodo	Duripan	14-20	4-17	---	0	---	Low	High	Low
	Bedrock (lithic)	18-30	---	---					
1290:									
Parran, rarely flooded	---	---	---	---	0	---	High	High	High

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1290: Other Soils	---	---	---	---	---	---	---	---	---
1300: Rose Creek Variant	---	---	---	---	0	---	Moderate	High	Low
1301: Rose Creek Variant	---	---	---	---	0	---	Moderate	High	Low
1310: Bango	---	---	---	---	0	---	Low	High	High
1320: Osobb	Bedrock (lithic)	8-19	---	---	0	---	Low	High	Low
	Duripan	9-20	0-3	---					
Fireball	Bedrock (lithic)	40-60	---	---	0	---	Low	High	Low
Rezave	Bedrock (lithic)	14-20	---	---	0	---	Low	High	High
1330: Sutcliff	Duripan	40-60	4-17	---	0	---	Low	High	Low
Kleinbush	---	---	---	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1330: Washoe	---	---	---	---	0	---	Moderate	Moderate	Low
1331: Bundorf	Duripan	14-20	4-17	---	0	---	Low	High	Low
Sutcliff	Duripan	40-60	4-17	---	0	---	Low	High	Low
Kleinbush	---	---	---	---	0	---	Low	High	Low
1340: Hawsley	---	---	---	---	0	---	Low	High	Low
Ruhe	Bedrock (paralithic)	14-20	---	---	0	---	Low	High	Low
Bluewing	---	---	---	---	0	---	Low	High	Low
1341: Isolde	---	---	---	---	0	---	Low	High	Low
Dune Land	---	---	---	---	0	---	None	Low	Low
Playas	---	---	---	---	0	---	None	High	Low

1342:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1342: Isolde	---	---	---	---	0	---	Low	High	Low
Playas	---	---	---	---	0	---	None	High	Low
1344: Isolde	---	---	---	---	0	---	Low	High	Low
Toulon	---	---	---	---	0	---	Low	High	Low
Playas	---	---	---	---	0	---	None	High	Low
1345: Hawsley	---	---	---	---	0	---	Low	High	Low
1346: Isolde	---	---	---	---	0	---	Low	High	Low
Typic Torriorthents	---	---	---	---	0	---	Low	Moderate	High
Dune Land	---	---	---	---	0	---	None	Low	Low
Playas	---	---	---	---	---	---	---	---	---

1347:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1347: Hawsley	---	---	---	---	0	---	Low	High	Low
Bluewing	---	---	---	---	0	---	Low	High	Low
1350: Stumble	---	---	---	---	0	---	Low	High	Low
Ruhe	Bedrock (paralithic)	14-20	---	---	0	---	Low	High	Low
Bluewing	---	---	---	---	0	---	Low	High	Low
1351: Stumble	---	---	---	---	0	---	Low	High	Low
1360: Trocken	---	---	---	---	0	---	Low	High	High
Bluewing	---	---	---	---	0	---	Low	High	Low
Stumble	---	---	---	---	0	---	Low	High	Low
1361: Ruhe	Bedrock (paralithic)	14-20	---	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1361: Troacken	---	---	---	---	0	---	Low	High	High
Bluewing	---	---	---	---	0	---	Low	High	Low
1362: Troacken	---	---	---	---	0	---	Low	High	High
Badland	Bedrock (paralithic)	1-4	---	---	0	---	None	High	High
1363: Troacken	---	---	---	---	0	---	Low	High	High
1364: Troacken	---	---	---	---	0	---	Low	High	High
Wrango	---	---	---	---	0	---	Low	High	Low
1370: Singatse	Bedrock (paralithic)	4-10	---	---	0	---	Low	High	Low
	Bedrock (lithic)	8-14	---	---					
Fireball	Bedrock (lithic)	40-60	---	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1370: Rednik	---	---	---	---	0	---	Low	High	Low
1371: Flex	Bedrock (paralithic)	6-12	---	---	0	---	Moderate	Moderate	Low
Singatse	Bedrock (paralithic)	4-10	---	---	0	---	Low	High	Low
	Bedrock (lithic)	8-14	---	---					
Acrelane	Bedrock (paralithic)	10-20	---	---	0	---	Moderate	Moderate	Moderate
1372: Singatse	Bedrock (paralithic)	4-10	---	---	0	---	Low	High	Low
	Bedrock (lithic)	10-14	---	---					
Isolde	---	---	---	---	0	---	Low	High	Low
1373: Singatse	Bedrock (paralithic)	4-10	---	---	0	---	Low	High	Low
	Bedrock (lithic)	10-14	---	---					
Mizel	Bedrock (lithic)	3-10	---	---	0	---	Moderate	Moderate	Moderate

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1373: Stingdorn	Duripan	8-20	0-3	---	0	---	Low	Moderate	Low
	Bedrock (lithic)	8-20	---	---					
1374: Singatse	Bedrock (paralithic)	4-10	---	---	0	---	Low	High	Low
	Bedrock (lithic)	10-14	---	---					
Fireball	Bedrock (lithic)	40-60	---	---	0	---	Low	High	Low
Osobb	Duripan	8-19	0-3	---	0	---	Low	High	Low
	Bedrock (lithic)	9-20	---	---					
1380: Singatse	Bedrock (paralithic)	4-10	---	---	0	---	Low	High	Low
	Bedrock (lithic)	10-14	---	---					
Stingdorn	Bedrock (lithic)	8-20	0-3	---	0	---	Low	Moderate	Low
	Duripan	8-20	---	---					
Rock Outcrop	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1390: Osobb	Duripan	8-19	0-3	---	0	---	Low	High	Low
	Bedrock (lithic)	9-20	---	---					
Pirouette	Duripan	11-20	0-3	---	0	---	Low	High	Moderate
	Bedrock (lithic)	12-23	---	---					
Rock Outcrop	---	---	---	---	---	---	---	---	---
1400: Gabica	Bedrock (lithic)	14-20	---	---	0	---	Moderate	High	Low
Softscrabble	Bedrock (paralithic)	75-78	---	---	0	---	Moderate	Moderate	Low
Burnborough	---	---	---	---	0	---	Moderate	Moderate	Low
1401: Softscrabble	Bedrock (paralithic)	75-78	---	---	0	---	Moderate	Moderate	Low
Gabica	Bedrock (lithic)	14-20	---	---	0	---	Moderate	High	Low
Sumine	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1401: Blackwell	---	---	---	---	---	---	---	---	---
1402: Softscrabble	Bedrock (paralithic)	60-63	---	---	0	---	Moderate	Moderate	Low
Hutchley	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Burnborough	---	---	---	---	0	---	Moderate	Moderate	Low
1403: Softscrabble	Bedrock (paralithic)	60-71	---	---	0	---	Moderate	Moderate	Low
Sumine	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Hutchley	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
1410: Burnborough	---	---	---	---	0	---	Moderate	Moderate	Low
Ticino	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Gabica	Bedrock (lithic)	14-20	---	---	0	---	Moderate	High	Low

1411:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1411: Burnborough	---	---	---	---	0	---	Moderate	Moderate	Low
Ticino	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Softscrabble	Bedrock (paralithic)	75-78	---	---	0	---	Moderate	Moderate	Low
1420: Barshaad	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
Fugawee	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	High	High
Duckhill Variant	Bedrock (lithic)	4-14	---	---	0	---	Moderate	Moderate	Moderate
1430: Fraval	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Moderate
Booford	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Jumbo	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Moderate
1431: Fraval	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Moderate

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1431: Duckhill Variant	Bedrock (lithic)	4-14	---	---	0	---	Moderate	Moderate	Moderate
Hirschdale	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
1432: Fraval	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	Moderate	Moderate
Hirschdale	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
Jumbo	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Moderate
1440: Tallac	Duripan	40-60	---	---	0	---	Low	Moderate	Moderate
Wet Areas	---	---	---	---	---	---	---	---	---
1441: Tallac	Duripan	40-60	---	---	0	---	Low	Moderate	Moderate
1450: Meiss	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Moderate
Sibelia	Bedrock (paralithic)	40-60	---	---	0	---	Low	Low	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1450: Rock Outcrop	---	---	---	---	---	---	---	---	---
1460: Jorge	Bedrock (paralithic)	50-98	---	---	0	---	Moderate	High	High
Boomtown	---	---	---	---	0	---	Moderate	Moderate	High
Fugawee	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	High	High
1470: Carioca	Bedrock (paralithic)	63-65	---	---	0	---	Moderate	Moderate	Moderate
Sibelia Variant	---	---	---	---	0	---	Moderate	Moderate	Moderate
Fugawee	Bedrock (paralithic)	20-40	---	---	0	---	Moderate	High	High
Blackwell	---	---	---	---	---	---	---	---	---
1480: Macareno	---	---	---	---	0	---	High	Moderate	Moderate
Blackwell	---	---	---	---	0	---	High	Moderate	Moderate

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1480:									
Carioca	Bedrock (paralithic)	63-65	---	---	0	---	Moderate	Moderate	Moderate
Wet Areas	---	---	---	---	---	---	---	---	---
1490:									
Arzo	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
Barnard	Duripan	20-40	4-17	---	0	---	Moderate	High	Low
Indiano	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
1520:									
Duco	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Smallcone	Bedrock (paralithic)	4-10	---	---	0	---	Low	Moderate	Moderate
Cagle	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
1521:									
Duco	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Yuko	Bedrock (paralithic)	6-14	---	---	0	---	Moderate	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1521: Lemm	---	---	---	---	0	---	Moderate	Moderate	Moderate
1522: Duco	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Pahrang	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Lemm	---	---	---	---	0	---	Moderate	Moderate	Moderate
1530: Bombadil	Bedrock (lithic)	7-14	---	---	0	---	Moderate	Moderate	Low
Hefed	---	---	---	---	0	---	Moderate	High	Low
Rubble Land	Bedrock (lithic)	40-60	---	---	0	---	None	---	---
1531: Bombadil	Bedrock (lithic)	7-14	---	---	0	---	Moderate	Moderate	Low
Hefed	---	---	---	---	0	---	Moderate	High	Low
Fireball	Bedrock (lithic)	40-60	---	---	0	---	Low	High	Low

1540:

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1540: Mcquarrie	Bedrock (lithic)	8-20	---	---	0	---	Moderate	High	Moderate
Tristan	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Low
Arzo	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low
1541: Duco	Bedrock (lithic)	10-20	---	---	0	---	Moderate	Moderate	Low
Mcquarrie	Bedrock (lithic)	8-20	---	---	0	---	Moderate	High	Moderate
Tristan	Bedrock (paralithic)	40-60	---	---	0	---	Moderate	Moderate	Low
1550: Skedaddle	Bedrock (lithic)	4-12	---	---	0	---	Moderate	Moderate	Low
Pahrangle	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Lemm	---	---	---	---	0	---	Moderate	Moderate	Moderate
1560: Roloc	Bedrock (paralithic)	14-20	---	---	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1560:									
Graufels	Bedrock (paralithic)	20-40	---	---	0	---	Low	Moderate	Low
Glenbrook	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
1570:									
Bluewing	---	---	---	---	0	---	Low	High	Low
Biddleman	---	---	---	---	0	---	Low	High	High
Bundorf	Duripan	14-20	4-17	---	0	---	Low	High	Low
1580:									
Frodo	Duripan	14-20	4-17	---	0	---	Low	High	Low
	Bedrock (lithic)	18-30	---	---					
Xman	Bedrock (paralithic)	10-20	---	---	0	---	Low	Moderate	Low
	Bedrock (lithic)	28-29	---	---					
Oppio	Bedrock (lithic)	20-40	---	---	0	---	Low	Moderate	Moderate
1590:									
Ruhe	Bedrock (paralithic)	14-20	---	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1590: Playas	---	---	---	---	---	---	---	---	---
1600: Wrango	---	---	---	---	0	---	Low	High	Low
Ruhe	Bedrock (paralithic)	14-20	---	---	0	---	Low	High	Low
1601: Olac	Bedrock (lithic)	8-14	---	---	0	---	Moderate	Moderate	Low
Old Camp	Bedrock (lithic)	10-20	---	---	0	---	Moderate	High	Low
Ceejay	Bedrock (lithic)	14-20	---	---	0	---	Low	High	Low
1602: Ceejay	Bedrock (lithic)	14-20	---	---	0	---	Low	High	Low
Olac	Bedrock (lithic)	8-14	---	---	0	---	Moderate	Moderate	Low
Rock Outcrop	---	---	---	---	---	---	---	---	---
1603: Arzo	Bedrock (paralithic)	20-40	---	---	0	---	Low	High	Low

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1603:									
Indiano	Bedrock (lithic)	20-40	---	---	0	---	Moderate	Moderate	Low
Barnard	Duripan	20-40	4-17	---	0	---	Moderate	High	Low
Wet Areas	---	---	---	---	---	---	---	---	---
1604:									
Arclay	Bedrock (paralithic)	14-20	---	---	0	---	Moderate	Moderate	Low
	Bedrock (lithic)	35-40	---	---					
1605:									
Grumblen	Bedrock (lithic)	14-20	---	---	0	---	Low	High	Low
Pickup	Bedrock (lithic)	20-40	---	---	0	---	Low	High	Low
1606:									
Theon	Bedrock (paralithic)	8-14	---	---	0	---	Low	High	Low
	Bedrock (lithic)	10-14	---	---					
Singatse	Bedrock (paralithic)	4-10	---	---	0	---	Low	High	Low
	Bedrock (lithic)	8-12	---	---					

Table K2. - Soil Features - Continued

Washoe County, Nevada, South Part

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1607: Cleaver	Duripan	10-20	4-17	---	0	---	Low	High	Low
Bundorf	Duripan	14-20	4-17	---	0	---	Low	High	Low
1610: Water	---	---	---	---	---	---	---	---	---